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**PT. SINKO PRIMA ALLOY**

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## Foreword

This guide will help you understand how to operate and maintain the product. Remember that the product must be used correctly and according to these instructions. User failure to follow these instructions may cause the device to malfunction or cause an accident at PT. Sinko Prima Alloy (hereinafter referred to as PT. Sinko Prima Alloy) is not responsible. PT. Sinko Prima Alloy owns the copyright to this guide. Without prior written approval from PT. Sinko Prima Alloy All documents related to this manual may not be copied, reproduced or translated into other languages.

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PT. Sinko Prima Alloy is solely responsible for possible impacts on the safety, limitations and performance of its equipment if:

Assembly, expansion, adjustment, modification or repair operations are carried out by persons authorized by PT. Sinko Prima Alloy and electrical installations meet national standards. The instrument is used according to the instructions for use. PT. Sinko Prima Alloy will provide the necessary circuit diagrams, parts lists, descriptions, calibration instructions or other information during individual repairs to repair specific device parts. PT. Sinko Prima Alloy is a part that can be repaired by maintenance personnel.

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## **Chapter 1 Main Technical Specifications GET 80C**

### **1.1 Normal work environment**

#### **Operating environment**

- a) Temperature:  $+5^{\circ}\text{C} \sim +35^{\circ}\text{C}$
- b) Relative humidity :  $\leq 80\%$
- c) Supply voltage : AC : 220V, 50 Hz
- d) Atmospheric pressure: 86 kPa  $\sim$  106kPa

#### **Storage and Transfer**

- a) Environmental temperature:  $-10^{\circ}\text{C} \sim 55^{\circ}\text{C}$
- b) Relative humidity :  $\leq 95\%$
- c) Atmospheric pressure: 50 kPa  $\sim$  106 kPa

### **1.2 Main Sterilization Methods:**

- a) Ozone gas has a very high concentration
- b) Infrared Ray Radiation

### **1.3 Ozone concentration: $\geq 100$ PPM**

### **1.4 One ozone sterilization period: 75 – 90 minutes**

### **1.5 Standard durability for ozone generator use: $\geq 1500$ hours**

### **1.6 Preferred Sterilization Method: Infrared radiation**

### **1.7 Infrared light intensity: $120^{\circ}\text{C} \sim 170^{\circ}\text{C} \geq 15$ minutes**

### **1.8 One sterilization period: $\pm 60$ minutes**

### **1.9 Ground leakage current: $\leq 0.1\text{Ma}$**

### **1.10 Earth Resistance: $\leq 0.1\Omega$**

### **1.11 Resistance Test Voltage 1500V 1 Minute: does not penetrate**

### **1.12 Supply voltage: AC 220V**

- 1.13 Electrical Frequency: 50/60 Hz
- 1.14 Unit dimensions: 463mm(L) × 360mm(W) × 890mm(H)
- 1.15 Total net weight of the unit: 19.3Kg

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### FULL SPECIFICATIONS GET 80C

Product model / type		GET-80C
Carrying capacity		90 L
Rated voltage		AC 220V
Rated frequency		50Hz
Power		< 700W
Unit Dimensions		463×360×890 (mm)
Net weight		19.3Kg
Sterilization with Ozone Generator	Ozone concentration	≥ 100 PPM
	Sterilization time	75 Minutes – 90 Minutes
	Sterilization period	75 Minutes – 90 Minutes
	Sterilization test results	Sterile (killing log >6)
Sterilization with Infrared	Sterilization temperature	120 °C ~ 170 °C ≥ 15min
	Sterilization time	± 30 Minutes
	Sterilization period	± 60 Minutes
	Sterilization test results	Sterile (killing log >6)
Standard Durability for Ozone & Infrared Use		≥ 1500 Hours
Leakage Current Test		≤ 0.1 mA
Earth resistance test		≤ 0.1 mΩ
Resistance Test against 1500V voltage, 1 minute		Not transparent
Function test at 180V voltage		Can work normally

Function test at 250V voltage	Can work normally
Function test at 42°C, RH 95%	Can work normally
Protection against Ozone leaks	High Density Silicon Seal
The alarm will stop working when the door is opened	As a safety measure for use
Protection against Ozone and Infrared leaks	Double layer glass

## Chapter 2 Safety Warnings

- 2.1 The power supply must be grounded before the sterilizer is operated.
- 2.2 Please disconnect the power supply cable before replacing the fuse.
- 2.3 It is recommended that this equipment be operated and stored by trained staff.
- 2.4 Operators should read this manual carefully before operating the sterilizer, and operate this equipment in accordance with operating regulations.
- 2.5 The design of this sterilizer has good security, but the operator must still pay attention to warnings regarding the condition and operating conditions of the sterilizer.
- 2.6 Please turn off the sterilizer and disconnect the power supply cable before cleaning and wiping dry.
- 2.7 If the instrument is not used immediately after sterilization, the instrument can be placed in a tray lined with sterile paper, and covered with a sheet or sterile paper. This instrument must be used within 3 hours.



## Chapter 3 Maintenance Regulations

- 3.1 Under normal conditions, use it according to the Instructions for Use of this Sterilizer. If this sterilizer has some problems, please contact our customer service. This company has sales records and customer files for each sterilizer which has a service guarantee of one year from the initial date of purchase depending on condition and time.
- 3.2 Even during the free maintenance period, we charge for repairs for the following reasons:
  - 3.2.1 Errors in use caused by operations outside the instructions for using the sterilizer. (the lamp broke due to being hit by an instrument, falling, or other error; the unit not working due to contact with water or other error)
  - 3.2.2 The error caused the crash when the user had already left the purchase location.
  - 3.2.3 Errors in preparation, reconstruction, decomposition and others are outside our company standards.
  - 3.2.4 Damage caused by natural disasters, for example: fire, flood, earthquake and others.
  - 3.2.5 Damage caused by drastic fluctuations in electrical voltage or outside the sterilizer's standard voltage requirements.
- 3.3 In the warranty period, free replacement for spare parts for one year. Except for power cables, stainless steel shelves, lamp cover frames, shelf supports due to overloading, instructions for use and packing costs.
- 3.4 Free maintenance service will be canceled if we find the seal is broken.
- 3.5 For maintenance costs outside the warranty period, our company recommends continuing to use "Periodic Maintenance Contact".

## **Chapter 4 Characteristics of the GET 80C Sterilizer**

- 4.1 Sterilization system: Dry sterilizer.
- 4.2 This sterilizer is very easy to use, no special knowledge and skills required for operation, no special supervision & maintenance required.
- 4.3 The sterilization process runs automatically, and the device can shut-off when the sterilization process ends.
- 4.4 Practical control panel, easier to operate. LCD display shows working status more clearly for observation.
- 4.5 Electrical safety class: Class 1.
- 4.6 The overall shape of this tool is elegant and easy to move or mobilize for various purposes, it can be supplied with electricity from UPS, DC sources, solar panels, dry batteries using a power inverter.
- 4.7 According to the working mode class, this tool is included in a tool that cannot work continuously.
- 4.8 Almost all instruments can be sterilized in this sterilizer, with ozone almost all heat-resistant and non-heat-resistant equipment can be sterilized. Equipment that is not resistant to ozone can be sterilized with infrared rays on this sterilizer.
- 4.9 This sterilizer can be used multi-functionally for various purposes, institutions, clinics, laboratories, hospitals, restaurants and households. Can sterilize: all medical instruments, salon labs, beauty treatments, tattoos, toys, baby equipment, important documents, eating and drinking utensils.

## **Chapter 5 Pay Attention Before Operation**

- 5.1 Read these instructions for use carefully before operating to ensure the Sterilizer can be used safely and effectively.
- 5.2 Installation and maintenance of the appliance must be carried out following these instructions for use.
  - 5.2.1 There must be no cables or high voltage sources around the sterilizer.
  - 5.2.2 Do not use or store the instrument in a place that has air pressure that is too high, temperature and humidity that exceed general standards, poor ventilation, too much dust, gas containing salt and alkali and chemical drugs.
- 5.3 This sterilizer must be placed on a flat place. Place it in a bright place when moving. Avoid excessive vibration and shaking.
- 5.4 The AC frequency and voltage value must be in accordance with requirements, and have sufficient current capacity.
- 5.5 Please place this sterilizer in a place that is easy to ground.
- 5.6 Before using the sterilizer, remove all instrument rack straps and packaging and remove the Warranty Card User's Instruction Booklet along with all existing documents, store them carefully in a place that is easy to find.
- 5.7 Check all equipment in the sterilization room, whether it is installed properly and correctly and in its proper place.

## Chapter 6 Work Preparation Before Operating the Sterilizer

- 6.1 Check whether the Sterilizer is grounded and the cable connection is secure or not.
- 6.2 Check the appropriate output voltage when selecting the AC UPS.
- 6.3 Make sure all instruments (equipment) to be sterilized have been washed clean and dried well before putting them in the sterilizer.
- 6.4 Initial cleaning of instruments using gloves. Instruments are cleaned with a warm soapy water solution in a washing tub or other suitable container. After that, rinse the instrument with running water and do this carefully so that the water does not splash.
- 6.5 Insert instruments (equipment) into the top or bottom rack according to the risk category or characteristics of the product being sterilized. There must be sufficient gaps between the instruments (equipment) so that the sterilization results are effective and thorough.
- 6.6 Instruments can be grouped according to the size of the risk they pose to the patient:  
Instruments that are classified as high risk are:  
Instruments that penetrate the skin, enter sterile parts of the body, or come into direct contact with injured mucous membranes.  
Instruments that are classified as moderate risk are:  
Instruments that come into direct contact with intact mucous membranes.  
Instruments that are classified as low risk are:  
Instruments that are only used on intact skin.
- 6.7 Cotton, gauze, gloves, cloth and the like can be sterilized by placing them neatly and in an orderly manner, not folding the cloth in layers.
- 6.8 For small instruments, please provide instrument racks that are tight and have even and comprehensive pores.

## Chapter 7 Precautions During Use

- 7.1 Pay attention that all instruments (equipment) are neatly and well arranged, according to the product category and characteristics, there are sufficient gaps between instruments (equipment), they do not exceed the load and do not overflow.
- 7.2 Note that the mechanical door lock is installed properly.
- 7.3 During sterilization, if a leak is detected, immediately stop the sterilization process, disconnect the power supply and contact our service center.
- 7.4 During sterilization, if the light flickers for a long time or works abnormally, immediately stop the sterilization process, disconnect the power supply and contact our service center.
- 7.5 During the sterilization process, it is prohibited to open the sterilizer door to avoid leaks. If the door is opened, an alarm will sound and the sterilization process will stop automatically. Please start the sterilization process from the beginning.
- 7.6 When the sterilization process ends, it is prohibited to open the sterilizer door directly, it is recommended to wait 20 minutes.
- 7.7 Disconnect or turn off the power cable from the power source after use.
- 7.8 Store the sterilizer and spare parts properly and correctly according to the instructions for use for the next time.

## **Chapter 8 Grounding and Electrical Connection to the Sterilizer**

### **Earthing:**

- 8.1 Connect the sterilizer to ground and a power outlet via a three-way power cable (three-wire plug). The three-wire plug must be inserted into the three-wire socket correctly.
- 8.2 If a three-wire outlet is not available, a qualified electrician must install one in accordance with Indonesian KONSUIL or AKLI regulations.
- 8.3 Under no circumstances do you remove the grounding conductor from the power plug.
- 8.4 Do not use any type of extension cable or adapter. The power cord and steak must be intact and undamaged.
- 8.5 Do not use drain pipes or other things as grounding.
- 8.6 Correct grounding can guarantee safety and protect against AC power interference and electromagnetic waves.

### **Electrical Connection to Sterilizer:**

- 8.7 Make sure the AC power supply meets the following specifications: 220-240VAC, 50Hz.
- 8.8 Connect the power cable/steaker from the sterilizer to a socket that has been properly and correctly grounded.
- 8.9 Make sure the power indicator light on the sterilizer is on.
- 8.10 If the power cable is not connected properly before operating the sterilizer, there is a possibility that the sterilizer will not work perfectly due to inefficient power input.

## Chapter 9 Sterilizer Operation

- 9.1 Insert the item to be processed then close the door and the process will start.
- 9.2 Press the button to operate the sterilizer, the process will stop automatically where the sterilization process is complete.
- 9.3 When all processes are complete, let stand  $\pm$  20 minutes for neutralization/cooling.
- 9.4 Press the Upper/Lower button to stop or cancel the sterilization process at any time if desired.
- 9.5 Use instruments (equipment) that have been sterilized immediately to avoid re-contamination when the instruments (equipment) are removed from this sterilizer.
- 9.6 If instruments (equipment) that have been sterilized are not used immediately, they can continue to be stored in the sterilizer to maintain the sterility of the instruments (equipment) while they are in the sterilizer.
- 9.7 It is recommended that instruments (equipment) that have been stored in the sterilizer for a long time be re-sterilized when they are used again.

## Chapter 10 Troubleshooting User Problems

No	Problem	Solution
1	Totally dead	<ul style="list-style-type: none"><li>• Check the electrical connection to the power source</li><li>• Check the brown power cable socket connection with an avometer</li><li>• Check the blue power cable socket connection with an avometer</li></ul> Check the fuse cable connection with an avometer
2	Ozone doesn't work	<ul style="list-style-type: none"><li>• Check whether the power light indicator is on or not</li><li>• Check the door control switch with the plate on the door to see if it presses well</li><li>• Check whether the electric voltage is normal</li></ul>
3	Infra Red light is off	<ul style="list-style-type: none"><li>• Check whether the power light indicator is on or not</li><li>• Check whether the electric voltage is normal</li></ul>



## Chapter 11 Care and Maintenance

- 10.1 Buyers are not permitted to open or disassemble the contents of the sterilizer. Any maintenance or renewal must be carried out by trained and professional persons authorized by PT. Sinko Prima Alloy. Maintenance must be carried out with original components from PT. Sinko Prima Alloy.
- 10.2 Please pull the power supply plug when the power is turned off. If this sterilizer is not used for a long period of time, please remove the power supply plug from the power source, then place this sterilizer in a shady, cool and dry place.
- 10.3 Sterilizers should be maintained and cleaned regularly.

How to clean the Elitech Sterilizer as follows:

- a.) First of all, the power cable must be disconnected from the power source.
- b.) Prepare a bucket and mix clean water and cleaning agent (liquid soap or neutral detergent) in the right ratio
- c.) Dip a sponge into the bucket and rub it on the outside and inside surfaces of the sterilizer chamber and its instrument rack.
- d.) Dip a cloth into a bucket containing clean water without cleaning agents then rub it evenly over all parts of the sterilizer to remove foam and soap marks.
- e.) Use a dry and clean cloth to dry, until the entire sterilizer is completely dry and clean

## Additional Chapters

In practice, there is no special officer responsible for decontamination actions, all group members play a role in the sterilization and disinfection process. In the public health department, the implementing officers consist of: health supervisors, public health nurses, nurse assistants, midwives and public health doctors. In the surgical department, group members may consist of a general practitioner, room nurse, head of room, secretary and receptionist. Routine tasks such as operating the Elitech Sterilizer can be handed over to someone else. Considering the above, it is necessary to provide the book "Instructions for Using Sterilizers" and if needed we can provide the book "Practical Instructions for Sterilizing Instruments with Elitech Sterilizers and Controlling Cross Infection".

First, you must understand the meaning and differences between the terms decontamination, disinfection and sterilization. The desired degree of decontamination is determined by the risk posed by the instrument.

**Decontamination:** A general term that describes washing, disinfection and sterilization methods to remove germs attached to medical equipment.

**Disinfection:** A way to kill vegetative bacteria, viruses and fungi but not kill spores.

**Sterilization:** A way to kill or destroy all microorganisms and spores attached to medical equipment.

There is often a wrong interpretation of the terms above, such as sterilizing with boiling hot water, which does not kill all spores, viruses and bacteria.

Initial cleaning is an important part of the decontamination process; If the instrument is not cleaned and rinsed first, blood and other dirt will clot and stick firmly to the instrument. The attached organisms will prolong the decontamination or sterilization process.

Elitech Sterilizing Cupboard / sterilizer presents new innovations in the world of medicine, in terms of sterilization of medical equipment. With simple technology, we have made a breakthrough in the field of sterilization of medical equipment. By applying very high concentrations of ozone gas for sterilization and very high intensity light.

Elitech sterilizers fill the need for sterilizers that are practical, economical, small and safe.

**Profit:****Practical:**

- ☐ No special knowledge required
- ☐ No supervision required
- ☐ No need for special care
- ☐ Simple sterilization implementation
- ☐ Almost all equipment can be sterilized with this tool
- ☐ Cloth, gauze, cotton can also be sterilized with this tool
- ☒ With special packaging, the instrument remains sterile for one month
- ☐ Increase mobility for doctors and midwives

**Economical:**

- ☐ Cheap price
- ☐ Practical maintenance
- ☐ Additional tools other than wrapping are not required
- ☐ Optimum electricity consumption
- ☐ Optimal electricity usage, standard operational costs

Security :

- ☐ Work without pressure
- ☐ There is no danger of explosion
- ☐ Electrical installation according to international standards

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# **DRY STERILIZATION**

**GET-80C**

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**MANUAL BOOK**



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